

Statement of Work 2013 Annual Report

Program: Sawtooth Fish Hatchery (SFH)

Species: A-Run and B-Run Summer Steelhead, Spring Chinook, Sockeye Salmon

Objective 1 – Adult Trapping and Broodstock Development

Tasks:

1. The LSRCP goals for the Sawtooth Fish Hatchery are to return 13,600 adult steelhead and 19,445 adult (spring/summer) Chinook salmon above Lower Granite Dam annually. In addition to managing the Sawtooth Hatchery the staff also oversees operations at (2) satellite facilities (East Fork and Squaw Creek) to achieve the LSRCP goals; however, the Squaw Creek operations were deactivated in 2013.
 - a. Pertinent physical and biological data associated with all aspects of program operations were collected. Program operations are detailed in the Salmon River Basin Annual Operating Plan (AOP).
2. Steelhead
 - a. The broodstock goal for A-run steelhead is 1,100 adults at Sawtooth and 14 natural pairs at the East Fork.
 - i. A total of 3,872 adult A-run steelhead were trapped at the Sawtooth weir in 2013. (3,833 HO and 39 NO).
 - ii. A total of 720 adult steelhead were trapped at the East Fork weir. (687 HO and 33 NO).
3. Chinook Salmon
 - a. The broodstock goal for spring Chinook is 900 adults.
 - i. A total of 3,344 adult Chinook were trapped in 2013. (2,944 HO and 400 NO).
4. Sockeye Salmon
 - a. Sawtooth personnel removed and assessed 46 sockeye salmon from the trap in 2013. These fish were immediately transferred to Eagle Fish Hatchery or released into Redfish Lake for volitional spawning.

Objective 2 – Spawning

Tasks:

1. Pertinent physical and biological data associated with all aspects of program operations were collected. Program operations are detailed in the Salmon River Basin Annual Operating Plan (AOP).
2. Steelhead
 - a. The egg collection target for the Sawtooth A-run steelhead is up to 2,500,000 with a broodstock goal of 1,100 adults. The East Fork Natural stock egg collection target was reduced in 2013 to 77,000 green eggs with a broodstock target of 14 NO females and 14 NO males.
 - b. In 2013 a total of 398 A-run steelhead females were spawned at Sawtooth producing 1,790,126 green eggs.
 - c. In 2013 a total of 12 NO females were spawned at the East Fork producing 78,453 green eggs.
 - d. Sawtooth also incubated 1,314,040 green eggs from Pahsimeroi.
3. Chinook Salmon

- a. The smolt release target is 1,800,000 spring Chinook with a green egg collection target of 2,200,000 and a broodstock target of 900 adults.
 - i. A total of 409 spring Chinook females were spawned in 2013 for the Sawtooth program. An additional 75 females were spawned to backfill the Pahsimeroi program but the eyed eggs were later returned to Sawtooth.

Objective 3 – Incubation and Rearing

Tasks:

1. Steelhead

- a. Incubate to eye up A and B-run steelhead eggs and ship to their designated hatchery (Hagerman National Fish Hatchery, Magic Valley Fish Hatchery and the Shoshone-Bannock Egg Box Program).
 - i. In 2013 1,695,976 Sawtooth stock eyed eggs were produced for a percent survival of 94.7%. Sawtooth shipped 1,516,675 Sawtooth stock eyed eggs to Hagerman National Fish Hatchery.
 - ii. In 2013, the Pahsimeroi stock eggs yielded 1,242,624 eye eggs for a 94.6% eye-up. Sawtooth shipped 537,649 Pahsimeroi stock eyed eggs to Magic Valley Fish Hatchery and 498,342 eyed eggs to the Shoshone-Bannock Egg Box Program.
 - iii. In 2013, Sawtooth shipped 69,182 East Fork stock eyed eggs to Hagerman National Fish Hatchery.
- b. Collected and recorded appropriate physical and biological data during incubation and transfers.

2. Chinook Salmon

- a. Incubated and reared spring Chinook eggs and fish at appropriate lot levels.
- b. Collected and recorded appropriate physical and biological data during incubation and rearing.
 - i. Brood Year 2011 spring Chinook survival from eyed egg to stocking was 96.4%. A total of 33,476 pounds of feed was fed for a weight gain of 34,585 resulting in a feed conversion of 0.97. The final entire hatchery average rearing densities were under 0.3 D.I.
 - ii. Brood Year 2012 spring Chinook number on hand is 1,936,405 presmolts at 27 fpp. This group of fish will overwinter in twelve large outside raceways. Smolts will be released in the spring of 2014 at the Sawtooth Weir and the Yankee Fork.
- c. Addressed objectives for Shoshone-Bannock Tribe programs and worked cooperatively (including egg and fish transfers).
- d. A feed trial was performed on the Brood Year 2011 Chinook using two of Bio Oregon's products, Bio Pro and Bio Vita. No scientific difference was found.

3. Sockeye Salmon

- a. Incubated from eyed egg and reared Sockeye Salmon eggs and fish at appropriate lot levels.
- b. Collected and recorded appropriate physical and biological data during incubation and rearing.
 - i. Brood Year 2011 sockeye salmon were released into Redfish Lake Creek on May 9, 2013. A total of 170,152 sockeye smolts averaging 27 fish per

- pound were released.
 - ii. Brood Year 2012 sockeye salmon eggs were shipped to Sawtooth in November and December of 2012. A total of 209,485 eyed eggs were shipped. The current on hand number is 173,208 presmolts. They will overwinter in two large outside raceways and will be released in May 2014.
- 4. Marking and Tagging
 - a. Marking and tagging tasks will be addressed collectively in a stand-alone Statement of Work.
- 5. Fish Health
 - a. Fish Health tasks will be addressed collectively in a stand-alone Statement of Work

Objective 4 – Juvenile Fish Releases

Tasks:

1. Chinook
 - a. Annual release plans.
 - i. Distribution of Brood Year 2011 spring Chinook smolts began on April 5, 2013. A total of 786,864 (652,732 segregated and 134,132 integrated) were direct released at the Sawtooth weir. On April 2 and 3, 2013 439,389 Brood Year 2011 Pahsimeroi Chinook were transported back to Pahsimeroi and released.
 - b. Fish loading and hauling information.
 - i. All fish hauling services were contracted through Neil Ring Trucking. No unusual mortality events were observed during fish hauling.
2. Sockeye
 - a. Annual release plans
 - i. Distribution of Brood Year 2011 sockeye occurred on May 9, 2013. A total of 170,152 sockeye smolts averaging 27 fish per pound were released into Redfish Lake Creek.

Objective 5 – Facility and Equipment Maintenance, Repair, Replacement

Tasks:

1. Maintain facilities and equipment.

During the year the following projects were completed:

 - a. Belt feeders repaired and serviced.
 - b. All well houses and generator room louvers were serviced.
 - c. The fish pump was rebuilt
 - d. Logs were replaced in the log boom at the intake.
 - e. Truck fill pump piping was replaced.
 - f. Trap floor cable and hardware were placed.
 - g. Plastic vapor barrier was installed in dorm crawl space.
 - h. Fire extinguisher location stripes were painted.
 - i. Visitor information signs were repainted.

- j. 160 lodge pole pine sapling were planted around the hatchery.
- k. Replaced aluminum dam boards at the top of the vats with PVC plastic panels.
- l. Small raceway walkways were bolted together.
- m. River water was diverted into the Kids Pond to help put more water into the Well #5 influence zone.
- n. Constructed two crowders for the small raceways
- o. Steps were built up to the Well #5 generator gauge/operation panel.
- p. Residence 5 electrical problems were repaired.
- q. Constructed eighteen belt feeder stands for small raceways.
- r. New electrical outlets for marking trailers were installed.
- s. The finger weir at the trap was repaired.
- t. VFD bypass switches were installed on Wells 1A, 5 and 6.
- u. The East Fork facility domestic line was dug up and repaired.
- v. Bear Jaw Interagency Fuels Team and others volunteered to cut down and buck up the burnt tree along the visitor road to the holding ponds and trap parking lot after the 210 Fire.
- w. Residence decks and woodsheds were repaired.
- x. Four fiberglass troughs were removed from the vatroom and returned to Eagle Fish Hatchery.
- y. Lawn valve on 14B was repaired.
- z. Lengthened aluminum dam boards.
- aa. New ceiling fans installed in Residences 2, 3, 4 and 5
- bb. New stovepipe in residences 1 and 5.
- cc. A surplus radial arm saw from McCall FH was installed in the woodshop.
- dd. Residence 3 received 2 new interior doors.
- ee. Carpets in the dorm, office residences 2, 4 and 5 were steam cleaned.
- ff. Hazard trees that ISS crews anchored their screw trap to were fallen.
- gg. A private contractor snipped off and chipped the burnt trees remaining after the 210 Fire.
- hh. Residence 3 interior repainted.

Objective 6 – Administration, Budgeting, and Reporting

Tasks:

- 1. Provided administrative oversight, developed and managed budgets, and met reporting requirements. This included overseeing spending, fish marking, fish transportation and fish health activities associated with this program.
 - a. Developed the facilities operating budget and submitted to LSRCP office by June 15.
 - b. Coordinated all major maintenance and improvement projects with LSRCP office.
 - c. Developed a Statement of Work and submitted it to LSRCP office by June 15.
 - d. Conducted annual safety inspections and submitted findings to the LSRCP office by August 1.

- e. Conducted annual facility condition assessments and submitted findings to the LSRCP office by August 1.
- f. Conducted annual real property and personal property inventories.
- g. Contributed to the development of the Salmon River AOP.
- h. Provided monthly fish inventory data to the LSRCP office by the 7th of each month.
- i. BY 2012 Steelhead Brood Year and BY 2013 Steelhead Run Reports, BY 2011 Chinook Brood Year Report and BY 2013 Chinook Run Report Drafts were completed on schedule and sent to IDFG Fisheries Bureau for final editing.